RDT&E BUDGET ITEN	FICATI	ICATION SHEET (R-2 Exhibit)							y 2003	
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE 0708026F Productivity, Reliability, Availability, Maintainability Program									PROJECT 2146
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
2146 PRAM	27,124	9,512	0	0	0	0	0	0	0	51,827
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	(
Note: Program funding was reduced after FY 2002 due (U) A. Mission Description This program emphasizes the rapid incorporation systems and equipment at a significantly lower c and emerging technologies and adapting them to Command and field support to implement the ad	of reliabili ost. Produc specific Ai	ty and main tivity, Relia r Force and	ntainability ability, Ava joint-Servi	(R&M) teclilability, Moce weapons	aintainabilit systems and	y (PRAM) processes	accomplish to solve nea	es this by u r-term defi	tilizing exist	ting off-the-shel relies on Major

(U)	FY 2002 (\$ in Thous	ands)	
(U)	\$0	Accomplishments/Planned Program	
(U)	\$2,552	Completed the existing PRAM projects that are designed to reduce total ownership cost of Air Force aging air	rcraft such as: overcoming parts
		obsolescence in test equipment for electronic warfare systems; prototyping coatings and lubricants to prevent	corrosion on support equipment
		and electrical terminals; and developing life support equipment and more efficient means of publishing techn	ical data.
(U)	\$9,905	Continued airframe, subsystem, and space R&M efforts that reduce the overall maintenance burden, improve	capabilities and reliability, and
		improve mission readiness. These efforts will be focused on reducing overall Air Force operations and suppo	rt (O&S) costs.
(U)	\$4,389	Continued existing aging aircraft efforts to reduce overall Air Force O&S costs and increase aircraft availabil	ity, reliability, while maintaining
		operational capability and reducing mobility footprint.	
(U)	\$2,139	Continued the existing efforts to address reduced O&S costs within the air armaments enterprise. Continued	development of a non-destructive
		test protocol that duplicates actual flight conditions for precision-guided munitions and cruise missiles.	
(U)	\$2,178	Developed and completed efforts associated with Inspection Technology for Turbine Engines such as the dev	relopment of an automated
Р	roject 2146	Page 1 of 6 Pages	Exhibit R-2 (PE 0708026F)

fielded systems and supporting infrastructure. Average project length is twenty-seven months. PRAM currently provides services to all three Air Force Materiel Command centers: Aeronautical Systems Center; Electronic Systems Center; and Air Armament Center; as well as all Air Logistics Centers. PRAM also provides service to the Air Force Space Command Space and Missile Systems Center. Note: In FY 2003, Congress added \$2.8M for Modeling/ Re-engineering for Oklahoma

City Air Logistics Center and \$2.1M for Aircraft Turbine Engine Sustainment.

	RDT8	ON SHEET (R-2 Exhibit)	DATE February 2003	
	GET ACTIVITY - Operational Sy	stem Development	PE NUMBER AND TITLE 0708026F Productivity, Reliability Maintainability Program	, Availability, 2146
(U)	A. Mission Descript	ion Continued		
(U)	FY 2002 (\$ in Thous			
(T.T)	¢2.000	ultrasonic inspection system to detect embedded f		
(U) (U)	\$2,000 \$3,961	Developed and completed efforts associated with	Automated Non-destructive Inspection Technology for	r Turbine Engine Sustainment such as the
(0)	ψ5,701		specimens to validate automated ultrasonic inspection	<u>c</u>
(U)	\$27,124	Total		
(U)	FY 2003 (\$ in Thous	ands)		
(U)	\$0	Accomplishments/Planned Program		
(U) (U)	\$1,774 \$1,311	Air Force systems such as: combining the attributhe F-16 aircraft; developing a powder coating technique of the strength of the system of the	Reliability, Availability and Mantainability (PRAM) process of three types of support equipment; transitioning contents that is applicable to various systems; and transfactor payloads for both space and aircraft missions. Drace reliability and maintainability (R&M) efforts that	ommercial-off- the-shelf equipment to itioning new materials that present an
(0)	Ψ1,511		a, improving capabilities, reliability, and mission reading	
(U)	\$870	Continue existing aero support equipment efforts	to reduce Air Force O&S costs. Expand the current base/configuration, premature failures, cost, and supply. C	se infrastructure R&M tracking method
(U)	\$862	Complete the existing space and missile systems in	reliability efforts to reduce Air Force O&S costs within at duplicates actual flight conditions for precision-guide ons handling systems.	<u> </u>
(U)	\$2,012	Develop and complete Aircraft Turbine Engine St		
(U)	\$2,683		deling/Re-engineering for Oklahoma City Air Logistic	s Center.
(U)	\$9,512	Total		
(U)	FY 2004 (\$ in Thous			
(U)	\$0	Accomplishments/Planned Program		
(U)	\$0 \$0	No Activity		
(U)	\$0	Total		
F	Project 2146		Page 2 of 6 Pages	Exhibit R-2 (PE 0708026F)

	RDT&E BUDGET ITEM JUSTIF	February 2003						
	GET ACTIVITY - Operational System Development	07	NUMBER AND 108026F P aintainabi	Productiv	• •	oility, Ava	ailability,	PROJECT 2146
(U)	B. Budget Activity Justification This program is in Budget Activity 7, Operational System Dev	velopment, because	it provides su	pport to syst	ems in operat	ional use.		
(U)	C. Program Change Summary (\$ in Thousands)							
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated Value		- 2	Y 2002 26,623 26,889	<u>FY 2003</u> 4,767 9,667		<u>7 2004</u> 7,409	Total Cos
	a. Congressional/General Reductions b. Small Business Innovative Research c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions			-266 -910 2,000 -457 -132	-102 -53			
(U) (U)	Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR		2	27,124	9,512	-	7,409 0	51,827
(U)	Significant Program Changes: Program funding was reduced due to higher priority Air Force	e requirements.						
(U)	<u>FY 2002</u> <u>FY 2003</u> <u>FY 2</u>	2004 FY 2005 imate Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cos
(U) (U)	AF RDT&E Other APPN (U) Related Activities: (U) PE 0605011F, RDT&E for Aging Aircraft.							
(U)	E. Acquisition Strategy All projects within this Program Element are awarded competit subcontracts.	tively, either by full	and open cor	mpetition, or	by amending	task order co	ontracts with comp	petition for
Р	Project 2146	Page 3 of	f 6 Pages				Exhibit R-2 (F	PE 0708026F)

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DAT	February 2003			
PE NUMBER AND TITLE Operational System Development Operational System Development Maintainability Program					, Avail				PROJECT 2146			
 (U) F. Schedule Profile (U) Blade Repair Contract Award (U) Request For Proposal Release (U) Contract Awards * = completed, X = planned 	1	<u>FY</u> 2 *	2002 3 X X	4	1 X	FY 2 X X	2003 3	4	1	<u>FY 2</u>	2 <u>004</u> 3	4
* = completed, X = planned												
Project 2146	Pas	ge 4 of 6 I	Pages						Exhibit I	R-2 (P	E 07080	26F)

(U) A. Proj (U) Subsyst (U) Airfran (U) Aero St (U) Space a (U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	rational System Dject Cost Breakdown Stem Reliability and Mome R&M Support Equipment and and Missile Systems I Tip Repair Project (restructive Inspection Technology for T	n (\$ in Thousan Iaintainability (F d Base Infrastruc Reliability programmed fro	ds) R&M) cture R&M		070802	er and title 16F Productinability Pr	ogram FY 2		FY 200	y, 2	PROJECT 2146 FY 2004
(U) Subsyst (U) Airfran (U) Aero St (U) Space a (U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	stem Reliability and M me R&M Support Equipment and and Missile Systems I Tip Repair Project (re estructive Inspection Tetion Technology for T	Maintainability (F d Base Infrastruc Reliability programmed fro	R&M) cture R&M							<u>13</u>	FY 2004
(U) Airfran (U) Aero Si (U) Space a (U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	me R&M Support Equipment and and Missile Systems I Tip Repair Project (re- estructive Inspection Technology for T	d Base Infrastruc Reliability programmed fro	cture R&M							<u>)3</u>	FY 2004
(U) Airfran (U) Aero Si (U) Space a (U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	me R&M Support Equipment and and Missile Systems I Tip Repair Project (re- estructive Inspection Technology for T	d Base Infrastruc Reliability programmed fro	cture R&M				2,	552	1		
(U) Aero Si (U) Space a (U) Blade Ti (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	Support Equipment and and Missile Systems I Tip Repair Project (restructive Inspection Technology for T	Reliability programmed fro					,	JJ4	1,774	4	
(U) Space a (U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Budg	and Missile Systems I Tip Repair Project (re estructive Inspection Technology for T	Reliability programmed fro					9,	905	1,31	1	
(U) Blade T (U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Bud	Tip Repair Project (resetructive Inspection Tetion Technology for T	programmed fro	DE 0207601				4,	389	870)	
(U) Non-de (U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Bud	estructive Inspection Technology for T		DE 0207601					139	862	2	
(U) Inspect (U) Aircraf (U) Modeli (U) Total (U) B. Bud	tion Technology for T	Technology for I	m PE 0207601	.F)			2,	000	(0	
(U) Aircraf (U) Modeli (U) Total (U) B. Bud			Engine Sustain	ment			3,	961	(0	
(U) Modeli (U) Total (U) B. Bud		Inspection Technology for Turbine Engine					2,	178	(0	
(U) Total (U) B. Bud	Aircraft Turbine Engine Sustainment							0	2,012		
(U) <u>B. Bud</u>	Modeling/Re-Engineering for Oklahoma City Air Logistics Ctr							0	2,683		
` '	Total						27,	124	9,512	2	
(II) Porfor	lget Acquisition Histo	ory and Plannir	ng Informatio	n (\$ in Thousan	<u>ds</u>)						
(U) I EI IUI I	ming Organizations:	:									
Contrac		Contract									
Govern		Method/Type	Award or	Performing	Project						
Perform		or Funding	<u>Obligation</u>	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
Activity		Vehicle	Date	EAC	EAC	to FY 2002	FY 2002	FY 2003	FY 2004	Complete	Program
Product	ct Development Organ	izations									
Numero	ous	Various	Various	N/A	N/A	3,028	19,250	1,900		0	24,178
General	al Atomics	Various	Various	N/A	N/A	9,903	1,100	2,100		0	13,103
Lockhe	eed Martin	Various	Various	N/A	N/A	510	1,500			0	2,010
ARINC	C	T&M	Feb 01	N/A	N/A	1,750	0			0	1,750
Battelle	e	T&M	Feb 01	N/A	N/A	0	150			0	150
Lockhe	eed Sanders	T&M	Mar 01	N/A	N/A	0	550			0	550
Southw	vest Research	T&M	Various	N/A	N/A	0	2,339	828		0	3,167
CACI		T&M	TBD	N/A	N/A	0	400	200		0	600
NCI Inf	formation Systems	T&M	Various	N/A	N/A	0	1,108	936		0	2,044
Project 2				Day	ge 5 of 6 Pag						

	RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)										February 2003			
	GET ACTIVITY - Operational System Development					BER AND TITLE 26F Produ ainability P	•	Availabilit	PROJE					
(U)	Performing Organization Product Development Orga	nizations												
	Survival Equipment Inc. SAIC	TBD TBD	TBD	N/A N/A	N/A N/A	0	450 277	300 448		0	750 725			
	Support and Management C UDRI In-house support Test and Evaluation Organi	TDB	Various	N/A	N/A	0	0	2,800			2,800			
(U)	Item Description Product Development Prop None Support and Management F None Test and Evaluation Proper	roperty: Contract Method/Type or Funding Vehicle erty Property	Award or Obligation Date	Delivery Date		Total Prior to FY 2002	Budget FY 2002	Budget FY 2003	Budget FY 2004	Budget to Complete	<u>Total</u> <u>Program</u>			
	None Subtotals Subtotal Product Developm Subtotal Support and Mana Subtotal Test and Evaluation Total Project	nent gement				Total Prior to FY 2002 15,191 0 15,191	Budget FY 2002 27,124 0 27,124	Budget FY 2003 6,712 2,800 9,512	Budget FY 2004	Budget to Complete 0	Total Program 49,027 2,800 51,827			
P	roject 2146			Pa	ge 6 of 6 Pa	ges			Exhib	it R-3 (PE 07	′08026F)			